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<110> Weigel et al.
<120> Identification of Hyaluronan Receptor for Endocytosis
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ACCAGCAATG GAGGATGTTC TACAAAGGCC GACTGTAAAA GAACCACCCC AGGAAACCGG     1080

GTGTGTGTGT GCAAGGCAGG CTATACCGGC GACGGCATCG TGTGCCTTGA AATCAACCCG     1140

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20              25              30              35

Val Phe Val Pro Asn Asn Glu Ala Iso Glu Asn Tyr Iso Arg Glu Lys Lys Ala
    40              45              50                  55

Thr Ser Leu Lys Glu Asp Iso Leu Arg Tyr His Val Val Leu     Gly
            60              65              70

Glu Lys Leu Leu Lys Asn Asp Leu His Asn Gly Met His Arg Glu Thr Met
            75              80              85

Leu Gly Phe Ser Tyr Leu Leu Ala Phe Phe Leu Arg Asn Asp Gln Leu Tyr Val Asn
    90              95              100             105

Glu Ala Pro Iso Asn Tyr Thr Asn Val Ala Thr Asp Lys Gly Val Iso His Gly Leu
        110             115             120             125

Glu Lys Val Leu Glu Iso Gln Lys Asn Arg Cys Asp Asn Asn Asp Thr Iso Iso Val
        130             135             140             145

Arg Gly Glu Cys Gly Lys Cys Ser Gln Gln Ala Pro Cys Pro Leu Glu Thr Lys Pro
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Leu Arg Glu Thr Arg Lys Cys Iso Tyr Ser Iso Tyr Phe Met Gly Lys Arg Ser Val
165             170             175             180
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Phe Iso Gly Cys Gln Pro Gln Cys Val Arg Thr Iso Iso Thr Arg Ala Cys Trp Leu
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Ala Ser Leu Ala His Asn Ala Lys Pro Ala Pro Gly Glu Val Lys Met Cys Ala Leu
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Gly Thr Ala Ser Val Trp Asp Gly Val Asn Gly Thr Gly Thr Cys Gln Cys Gly Leu
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Gly Phe Asn Gly Thr Ala Cys Glu Thr Cys Thr Glu Gly Lys Tyr Gly Iso His Cys
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Asp Gln Ala Cys Ser Cys Val His Gly Arg Cys Ser Gln Gly Pro Leu Gly Asp Gly
260   265   270   275

Ser Cys Asp Cys Asp Val Gly Trp Arg Gly Val Lys Cys Asp Met Glu Iso Thr Thr
    280   285   290   295

Asp Asn Cys Asn Gly Thr Cys His Thr Ser Ala Asn Cys Leu Leu Asp Pro Asp Gly
        300   305   310   315

Lys Ala Ser Cys Lys Cys Ala Ala Gly Phe Arg Gly Asn Gly Thr Val Cys Thr Ala
            320   325   330   335

Iso Asn Ala Cys Glu Thr Ser Asn Gly Gly Cys Ser Thr Lys Ala Asp Cys Lys Arg
            340   345   350

Thr Thr Pro Gly Asn Arg Val Cys Val Cys Lys Ala Gly Tyr Thr Gly Asp Gly Iso
355   360   365   370

Val Cys Leu Glu Iso Asn Pro Cys Leu Glu Asn His Gly Gly Cys Asp Arg Asn Ala
    375   380   385   390

Glu Cys Thr Gln Thr Gly Pro Asn Gln Ala Val Cys Asn Cys Leu Pro Lys Tyr Thr
    395   400   405   410

Gly Asp Gly Lys Val Cys Ser Leu Iso Asn Val Cys Leu Thr Asn Asn Gly Gly Cys
        415   420   425   430

Ser Pro Phe Ala Phe Cys Asn Tyr Thr Glu Gln Asp Gln Arg Iso Cys Thr Cys Lys
            435   440   445

Pro Asp Tyr Thr Gly Asp Gly Iso Val Cys Arg Gly Ser Iso Tyr Gly Glu Leu Pro
450   455   460   465

Lys Asn Pro Ser Thr Ser Gln Tyr Phe Phe Gln Leu Gln Glu His Ala Val Arg Glu
470   475   480   485

Leu Ala Gly Pro Gly Pro Phe Thr Val Phe Ala Pro Leu Ser Ser Ser Phe Asn His
    490   495   500   505

Glu Pro Arg Iso Lys Asp Trp Asp Gln Gln Gly Leu Met Ser Gln Val Leu Arg Tyr
       510   515   520   525

His Val Val Gly Cys Gln Gln Leu Leu Leu Asp Asn Leu Lys Val Thr Thr Ser Ala
           530   535   540

Thr Thr Leu Gln Gly Glu Pro Val Ser Iso Ser Val Ser Gln Asp Thr Val Phe Iso
545   550   555   560

Asn Asn Glu Ala Lys Val Leu Ser Ser Asp Iso Iso Ser Thr Asn Gly Val Iso His
  565   570   575   580

Val Iso Asp Lys Leu Leu Ser Pro Lys Asn Leu Leu Iso Thr Pro Lys Asp Ala Leu
    585   590   595   600

Gly Arg Val Leu Gln Asn Leu Thr Thr Val Ala Ala Asn His Gly Tyr Thr Lys Phe
       605   610   615   620

Ser Lys Leu Iso Gln Asp Ser Gly Leu Leu Ser Val Iso Thr Asp Ser Iso His Thr
           625   630   635

Pro Val Thr Val Phe Trp Pro Thr Asp Lys Ala Leu Glu Ala Leu Pro Pro Glu Gln
640   645   650   655

Gln Asp Phe Leu Phe Asn Gln Asp Asn Lys Asp Lys Leu Lys Ser Tyr Leu Lys Phe
  660   665   670   675

His Val Iso Arg Asp Ser Lys Ala Leu Ala Ser Asp Leu Pro Arg Ser Ala Ser Trp
    680   685   690   695

Lys Thr Leu Gln Gly Ser Glu Leu Ser Val Arg Cys Gly Thr Gly Ser Asp Iso Gly
       700   705   710   715

Glu Leu Phe Leu Asn Glu Gln Met Cys Arg Phe Iso His Arg Gly Leu Leu Phe Asp
       720   725   730

Val Gly Val Ala Tyr Gly Iso Asp Cys Leu Leu Met Asn Pro Thr Leu Gly Gly Arg
735   740   745   750

Cys Asp Thr Phe Thr Thr Phe Asp Iso Pro Gly Glu Cys Gly Ser Cys Iso Phe Thr
  755   760   765   770

Pro Lys Cys Pro Leu Lys Ser Lys Pro Lys Gly Val Lys Lys Lys Cys Iso Tyr Asn
    775   780   785   790

Pro Leu Pro Phe Arg Arg Asn Val Glu Gly Cys Gln Asn Leu Cys Thr Val Val Iso
795 800 805 810

Gln Thr Pro Arg Cys Cys His Gly Tyr Phe Met Pro Asp Cys Gln Ala Cys Pro Gly
815 820 825

Gly Pro Asp Thr Pro Cys Asn Asn Arg Gly Met Cys Arg Asp Leu Tyr Thr Pro Met
830 835 840 845

Gly Gln Cys Leu Cys His Thr Gly Phe Asn Gly Thr Ala Cys Glu Leu Cys Trp His
850 855 860 865

Gly Arg Phe Gly Pro Asp Cys Gln Pro Arg Ser Cys Ser Glu His Gly Gln Cys Asp
870 875 880 885

Glu Gly Iso Thr Gly Ser Gly Glu Cys Leu Cys Glu Thr Gly Trp Thr Ala Ala Ser
890 895 900 905

Cys Asp Thr Pro Thr Ala Val Phe Ala Val Cys Thr Pro Ala Cys Ser Val His Ala
910 915 920

Thr Cys Thr Glu Asn Asn Thr Cys Val Cys Asn Leu Asn Tyr Glu Gly Asp Gly Iso
925 930 935 940

Thr Cys Thr Val Val Asp Phe Cys Lys Gln Asn Asn Gly Gly Cys Ala Lys Val Ala
945 950 955 960

Lys Cys Ser Gln Lys Gly Thr Gln Val Ser Cys Ser Cys Lys Lys Gly Tyr Lys Gly
965 970 975 980

Asp Gly Tyr Ser Cys Iso Glu Iso Asp Pro Cys Ala Asp Gly Val Asn Gly Gly Cys
985 990 995 1000

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1005 1010 1015

Ser His Tyr Val Gly Asp Gly Val Asp Cys Glu Pro Glu Gln Leu Pro Leu Asp Arg
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Cys Leu Gln Asp Asn Gly Gln Cys His Pro Asp Ala Ser Cys Ala Asp Leu Tyr Phe
1040 1045 1050 1055

Gln Asp Thr Thr Val Gly Val Phe His Leu Arg Ser Pro Leu Gly Gln Tyr Lys Leu
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Thr Phe Asp Lys Ala Lys Glu Ala Cys Ala Lys Glu Ala Ala Thr Iso Ala Thr Tyr
1080 1085 1090 1095

Asn Gln Leu Ser Tyr Ala Gln Lys Ala Lys Tyr His Leu Cys Ser Ala Gly Trp Leu
          1100   1105   1110

Glu Ser Gly Arg Val Ala Tyr Pro Thr Thr Tyr Ala Ser Gln Lys Cys Gly Ala Asn
1115   1120   1125   1130

Val Val Gly Iso Val Asp Tyr Gly Ser Arg Ala Asn Lys Ser Glu Met Trp Asp Val
          1135   1140   1145   1150

Phe Cys Tyr Arg Met Lys Asp Val Asn Cys Thr Cys Lys Ala Gly Tyr Val Gly Asp
          1155   1160   1165   1170

Gly Phe Ser Cys Ser Gly Asn Leu Leu Gln Val Leu Met Ser Phe Pro Ser Leu Thr
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Asn Phe Leu Thr Glu Val Leu Ala Phe Ser Lys Ser Ser Ala Arg Gly Gln Ala Phe
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Leu Lys His Leu Thr Asp Leu Ser Iso Arg Gly Thr Leu Phe Val Pro Gln Asn Ser
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Gly Leu Pro Gly Asn Lys Ser Leu Ser Gly Arg Asp Iso Glu His His Leu Thr Asn
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Val Asn Val Ser Phe Tyr Asn Asp Leu Val Asn Gly Thr Phe Leu Arg Thr Met Leu
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Gly Ser Gln Leu Leu Iso Thr Phe Ser Gln Asp Gln Leu His Gln Glu Thr Arg Phe
          1270   1275   1280   1285

Val Asp Gly Arg Ser Iso Leu Gln Trp Asp Iso Iso Ala Ala Asn Gly Iso Leu His
          1290   1295   1300

Iso Iso Ser Glu Pro Leu Arg Ala Pro Pro Thr Ala Ala Thr Ala Ala His Ser Gly
1305   1310   1315   1320

Leu Gly Thr Gly Iso Phe Cys Ala Val Val Leu Val Thr Gly Ala Iso Ala Leu Ala
     1325   1330   1335   1340

Ala Tyr Ser Tyr Phe Arg Leu Lys Gln Arg Thr Thr Gly Phe Gln Arg Phe Asp Gln
          1345   1350   1355   1360

Lys Arg Thr Leu Met Ser Trp Leu Leu Ala Ser Ser Ser Pro Arg Iso Ser Gln Thr
          1365   1370   1375   1380

Leu Cys Met Arg Pro Gln Arg Arg His Pro Gln Ser Pro Pro Val Thr Pro Ser Gln
               1385   1390   1395

Thr Leu Glu Asn Arg Iso Trp Arg Thr Ala Thr Leu Trp Gly His Cys Gly Pro Asp
1400   1405   1410   1415

Met Arg Ser Gln Gln Ala Thr Thr Val Thr Val Pro Arg
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<110> Weigel et al.
<120> Identification of Hyaluronan Receptor for Endocytosis
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Glu Pro Arg
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1   5   10   15

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GTCCTCCGGT ATCATGTGGT CCTGGAGGAG AAACTCCTGA AGAATGACCT GCACAATGGC     180
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CAGCTCTATG TAAATGAGGC TCCAATAAAC TACACCAATG TAGCCACTGA TAAGGGAGTG     300
ATCCATGGCT TGGGAAAAGT TCTGGAAATT CAGAAGAACA GATGTGATAA TAATGACACT     360
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GCCGGCTTCT TTGGCCCCCA ATGCCAGCCC TGTCCAGGGA ATGCCCAGAA TGTCTGCTTT     600
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Iso Gln Tyr Asn Leu Ala Asn Ala Iso Glu Ala Ala Asp Ala Tyr Thr Val Phe Ala
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Pro Asn Asn Asn Ala Iso Glu Asn Tyr Iso Arg Glu Lys Lys Val Leu Ser Leu Glu
 20                  25                  30                  35

Glu Asp Val Leu Arg Tyr His Val Val Leu Glu Glu Lys Leu Leu Lys Asn Asp Leu
     40                  45                  50                  55

His Asn Gly Met His Arg Glu Thr Met Leu Gly Phe Ser Tyr Phe Leu Ser Phe Phe
         60                  65                  70                  75

Leu His Asn Asp Gln Leu Tyr Val Asn Glu Ala Pro Iso Asn Tyr Thr Asn Val Ala
             80                  85                  90                  95

Thr Asp Lys Gly Val Iso His Gly Leu Gly Lys Val Leu Glu Iso Gln Lys Asn Arg
                 100                 105                 110

Cys Asp Asn Asn Asp Thr Thr Iso Iso Arg Gly Arg Cys Arg Thr Cys Ser Ser Glu
115                 120                 125                 130

Leu Thr Cys Pro Phe Gly Thr Lys Ser Leu Gly Asn Glu Lys Arg Arg Cys Iso Tyr
    135                 140                 145                 150

Thr Ser Tyr Phe Met Gly Arg Arg Thr Leu Phe Iso Gly Cys Gln Pro Lys Cys Val
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Arg Thr Val Iso Thr Arg Glu Cys Cys Ala Gly Phe Phe Gly Pro Gln Cys Gln Pro
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Cys Pro Gly Asn Ala Gln Asn Val Cys Phe Gly Asn Gly Iso Cys Leu Asp Gly Val
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Cys Thr Glu Gly Lys Tyr Gly Iso His Cys Asp Gln Ala Cys Ser Cys Val His Gly
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Arg Cys Asn Gln Gly Pro Leu Gly Asp Gly Ser Cys Asp Cys Asp Val Gly Trp Arg
        250                 255                 260                 265

Gly Val His Cys Asp Asn Ala Thr Thr Glu Asp Asn Cys Asn Gly Thr Cys His Thr
            270                 275                 280                 285

Ser Ala Asn Cys Leu Thr Asn Ser Asp Gly Thr Ala Ser Cys Lys Cys Ala Ala Gly
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Phe Gln Gly Asn Gly Thr Iso Cys Thr Ala Iso Asn Ala Cys Glu Iso Ser Asn Gly
305                 310                 315                 320

Gly Cys Ser Ala Lys Ala Asp Cys Lys Arg Thr Thr Pro Gly Arg Arg Val Cys Thr
    325                 330                 335                 340

Cys Lys Ala Gly Tyr Thr Gly Asp Gly Iso Val Cys Leu Glu Iso Asn Pro Cys Leu
        345                 350                 355                 360

Glu Asn His Gly Gly Cys Asp Lys Asn Ala Glu Cys Thr Gln Thr Gly Pro Asn Gln
            365                 370                 375                 380

Ala Ala Cys Asn Cys Leu Pro Ala Tyr Thr Gly Asp Gly Lys Val Cys Thr Leu Iso
            385                 390                 395

Asn Val Cys Leu Thr Lys Asn Gly Gly Cys Ser Glu Phe Ala Iso Cys Asn His Thr
400                 405                 410                 415

Gly Gln Val Glu Arg Thr Cys Thr Cys Lys Pro Asn Tyr Iso Gly Asp Gly Phe Thr
    420                 425                 430                 435

Cys Arg Gly Ser Iso Tyr Gln Glu Leu Pro Lys Asn Pro Lys Thr Ser Gln Tyr Phe
    440                 445                 450                 455

Phe Gln Leu Gln Glu His Phe Val Lys Asp Leu Val Gly Pro Gly Pro Phe Thr Val
        460                 465                 470                 475

Phe Ala Pro Leu Ser Ala Ala Phe Asp Glu Glu Ala Arg Val Lys Asp Trp Asp Lys
            480                 485                 490
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Tyr Gly Leu Met Pro Gln Val Leu Arg Tyr His Val Val Ala Cys His Gln Leu Leu
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Iso Ser Val Ser Gln Ser Thr Val Tyr Iso Asn Asn Lys Ala Lys Iso Iso Ser Ser
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Asp Iso Iso Ser Thr Asn Gly Iso Val His Iso Iso Asp Lys Leu Leu Ser Pro Lys
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Asn Leu Leu Iso Thr Pro Lys Asp Asn Ser Gly Arg Iso Leu Gln Asn Leu Thr Thr
575   580   585

Leu Ala Thr Asn Asn Gly Tyr Iso Lys Phe Ser Asn Leu Iso Gln Asp Ser Gly Leu
590   595   600   605

Leu Ser Val Iso Thr Asp Pro Iso His Thr Pro Val Thr Leu Phe Trp Pro Thr Asp
610   615   620   625

Gln Ala Leu His Ala Leu Pro Ala Glu Gln Gln Asp Phe Leu Phe Asn Gln Asp Asn
630   635   640   645

Lys Asp Lys Leu Lys Glu Tyr Leu Lys Phe His Val Iso Arg Asp Ala Lys Val Leu
650   655   660   665

Ala Val Asp Leu Pro Thr Ser Thr Ala Trp Lys Thr Leu Gln Gly Ser Glu Leu Ser
670   675   680

Val Lys Cys Gly Ala Gly Arg Asp Iso Gly Asp Leu Phe Leu Asn Gly Gln Thr Cys
685   690   695   700

Arg Iso Val Gln Arg Glu Leu Leu Phe Asp Leu Gly Val Ala Tyr Gly Iso Asp Cys
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Leu Leu Iso Asp Pro Thr Leu Gly Gly Arg Cys Asp Thr Phe Thr Thr Phe Asp Ala
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Ser Gly Glu Cys Gly Ser Cys Val Asn Thr Pro Ser Cys Pro Arg Trp Ser Lys Pro
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Lys Gly Val Lys Gln Lys Cys Leu Tyr Asn Leu Pro Phe Lys Arg Asn Leu Glu Gly
765   770   775

Cys Arg Glu Arg Cys Ser Leu Val Iso Gln Iso Pro Arg Cys Cys Lys Gly Tyr Phe
780   785   790   795

Gly Arg Asp Cys Gln Ala Cys Pro Gly Gly Pro Asp Ala Pro Cys Asn Asn Arg Gly
       800   805   810   815

Val Cys Leu Asp Gln Tyr Ser Ala Thr Gly Glu Cys Lys Cys Asn Thr Gly Phe Asn
       820   825   830   835

Gly Thr Ala Cys Glu Met Cys Trp Pro Gly Arg Phe Gly Pro Asp Cys Leu Pro Cys
       840   845   850   855

Gly Cys Ser Asp His Gly Gln Cys Asp Asp Gly Iso Thr Gly Ser Gly Gln Cys Leu
               860   865   870

Cys Glu Thr Gly Trp Thr Gly Pro Ser Cys Asp Thr Gln Ala Val Leu Pro Ala Val
875   880   885   890

Cys Thr Pro Pro Cys Ser Ala His Ala Thr Cys Lys Glu Asn Asn Thr Cys Glu Cys
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Asn Leu Asp Tyr Glu Gly Asp Gly Iso Thr Cys Thr Val Val Asp Phe Cys Lys Gln
         915   920   925   930

Asp Asn Gly Gly Cys Ala Lys Val Ala Arg Cys Ser Gln Lys Gly Thr Lys Val Ser
             935   940   945   950

Cys Ser Cys Gln Lys Gly Tyr Lys Gly Asp Gly His Ser Cys Thr Glu Iso Asp Pro
             955   960   965

Cys Ala Asp Gly Leu Asn Gly Gly Cys His Glu His Ala Thr Cys Lys Met Thr Gly
970   975   980   985

Pro Gly Lys His Lys Cys Glu Cys Lys Ser His Tyr Val Gly Asp Gly Leu Asn Cys
    990   995   1000   1005

Glu Pro Glu Gln Leu Pro Iso Asp Arg Cys Leu Gln Asp Asn Gly Gln Cys His Ala
    1010   1015   1020   1025

Asp Ala Lys Cys Val Asp Leu His Phe Gln Asp Thr Thr Val Gly Val Phe His Leu
         1030   1035   1040   1045

Arg Ser Pro Leu Gly Gln Tyr Lys Leu Thr Phe Asp Lys Ala Arg Glu Ala Cys Ala
             1050   1055   1060

Asn Glu Ala Ala Thr Met Ala Thr Tyr Asn Gln Leu Ser Tyr Ala Gln Lys Ala Lys
1065   1070   1075   1080

Tyr His Leu Cys Ser Ala Gly Trp Leu Glu Thr Gly Arg Val Ala Tyr Pro Thr Ala
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Phe Ala Ser Gln Asn Cys Gly Ser Gly Val Val Gly Iso Val Asp Tyr Gly Pro Arg
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Pro Asn Lys Ser Glu Met Trp Asp Val Phe Cys Tyr Arg Met Lys Asp Val Asn Cys
            1125                1130                1135                1140

Thr Cys Lys Val Gly Tyr Val Gly Asp Gly Phe Ser Cys Ser Gly Asn Leu Leu Gln
                1145                1150                1155

Val Leu Met Ser Phe Pro Ser Leu Thr Asn Phe Leu Thr Glu Val Leu Ala Tyr Ser
1160                1165                1170                1175

Asn Ser Ser Ala Arg Gly Arg Ala Phe Leu Glu His Leu Thr Asp Leu Ser Iso Arg
    1180                1185                1190                1195

Gly Thr Leu Phe Val Pro Gln Asn Ser Gly Leu Gly Glu Asn Glu Thr Leu Ser Gly
        1200                1205                1210                1215

Arg Asp Iso Glu His His Leu Ala Asn Val Ser Met Phe Phe Tyr Asn Asp Leu Val
        1220                1225                1230                    1235

Asn Gly Thr Thr Leu Gln Thr Arg Leu Gly Ser Lys Leu Leu Iso Thr Ala Ser Gln
            1240                1245                1250

Asp Pro Leu Gln Pro Thr Glu Thr Arg Phe Val Asp Gly Arg Ala Iso Leu Gln Trp
1255                1260                1265                1270

Asp Iso Phe Ala Ser Asn Gly Iso Iso His Val Iso Ser Arg Pro Leu Lys Ala Pro
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Pro Ala Pro Val Thr Leu Thr His Thr Gly Leu Gly Ala Gly Iso Phe Phe Ala Iso
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Iso Leu Val Thr Gly Ala Val Ala Leu Ala Ala Tyr Ser Tyr Phe Arg Iso Asn Arg
        1315                1320                1325                    1330

Arg Thr Iso Gly Phe Gln His Phe Glu Ser Glu Glu Asp Iso Asn Val Ala Ala Leu
            1335                1340                1345

Gly Lys Gln Gln Pro Glu Asn Iso Ser Asn Pro Leu Tyr Glu Ser Thr Thr Ser Ala
1350                1355                1360                1365

Pro Pro Glu Pro Ser Tyr Asp Pro Phe Thr Asp Ser Glu Glu Arg Gln Leu Glu Gly
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<110> Weigel et al.
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<130> 5820.603
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<141> Herewith
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1                 5                   10                  15
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1               5                   10                  15

Glu Glu Ala Arg
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<110> Weigel et al.
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